Physica C 183 (1991) 389–392
North-Holland

PHYSICA C

Author Index to Volume 183

Aihara, K., see T. Doi **183**, 67
Aleksashin, B.A., see Iu.I. Zhdanov **183**, 247
Andreev, A.V., see S. Dukan **183**, 355

Bach, H., see Th. Strangfeld **183**, 1
Badía, A., see R. Navarro **183**, 73
Bagheri, S., see B.W. Statt **183**, 57
Balkin, D., see P. McGinn **183**, 51
Bando, Y., see K. Kamigaki **183**, 252
Bartolomé, J., see R. Navarro **183**, 73
Bauer, M., see W. Zimmermann **183**, 99
Berdahl, P., see X.L. Mao **183**, 167
Bezryadin, A.V. and V.N. Kopylov, Penetration of magnetic field into $Bi_2Sr_2Ca_1Cu_2O_8$ single crystal as observed by point contact **183**, 207
Bhagat, S.M., see M.A. Manheimer **183**, 324
Bichile, G.K., S. Deshmukh, D.G. Kuberkar and R.G. Kulkarni, Influence of hole filling and pair breaking by Pr and hole doping by Ca on superconductivity and flux pinning of $YBa_2Cu_3O_{6.83}$ **183**, 154
Bohdziewicz, A., see A. Rojek **183**, 130
Bolschinskov, K.A., see V.N. Trofimov **183**, 135
Brandt, E.H., see W. Zimmermann **183**, 99
Brom, H.B., see D. Reefman **183**, 212
Bruynseraede, Y., see J. Vanacken **183**, 163
Burns, S.J., see A. Goyal **183**, 221

Carneiro, G., Vortex-loop fluctuations and vortex-line-lattice melting in layered superconductors **183**, 360
Cendlewska, B., see A. Rojek **183**, 130
Chen, C.H., D.J. Werder, S.-W. Cheong and H. Takagi, Micro-twin and antiphase domain boundaries in the orthorhombic phase of $La_{2-x}(Sr,Ba)_xCuO_4$ **183**, 121
Chen, W., see P. McGinn **183**, 51
Cheong, S.-W., see C.H. Chen **183**, 121
Clougherty, D.P., see K.H. Johnson **183**, 319
Cockayne, D.J.H., see G.B. Smith **183**, 172

Dasgupta, C. and T.V. Ramakrishnan, Flux pinning and creep in high-T_c superconductors **183**, 62
Däumling, M., The reversible magnetization of oxygen deficient $YBa_2Cu_3O_{7-\delta}$ **183**, 293
De, U., S. Natarajan and E.W. Seibt, Characterization of pure $YBa_2Cu_3O_{7-x}$ and its silver added ceramic composites by Auger electron spectroscopy **183**, 83
Deshmukh, S., see G.K. Bichile **183**, 154
DiNardo, N.J., see M.H. Jiang **183**, 39
Doi, T., M. Okada, A. Soeta, T. Yuasa, K. Aihara, T. Kamo and S.-P. Matsuda, Flux pinning in single Tl-layer 1223 superconductors **183**, 67
Downey, J.W., see G.T. Seidler **183**, 333
Driver, R., see B.W. Ricketts **183**, 17
Dukan, S., A.V. Andreev and Z. Tešanović, Superconductivity in a high magnetic field. Excitation spectrum and de Haas–van Alphen oscillation **183**, 355

ElMassalami, M., A. Elzubair, H.M. Ibrahim and M.A. Rizgalla, Structural and magnetic properties of $YBa_2Fe_3O_{7+x}$. Fe-based 1-2-3 ceramic oxide **183**, 143
Elzubair, A., see M. ElMassalami **183**, 143
Enomoto, T., see C. Murayama **183**, 277
Esquinazi, P., see Y. Kopelevich **183**, 345

Filipczuk, S.W., see G.B. Smith **183**, 172
Flokstra, J., see E.P. Houwman **183**, 339
Freltoft, T., see A.V. Pogrebnyakov **183**, 27
Fujita, J., see T. Satoh **183**, 286
Funkenbusch, P.D., see A. Goyal **183**, 221

Ganguly, P., see T. Mertelj **183**, 11
Genzel, L., see W. Zimmermann **183**, 99
Gijsbertsen, J.G., see E.P. Houwman **183**, 339
Ginley, D.S., see B. Morosin **183**, 90
Gould, A., see M.A. Manheimer **183**, 324
Goyal, A., W.C. Oliver, P.D. Funkenbusch, D.M. Kroeger and S.J. Burns, Mechanical properties of highly aligned $YBa_2Cu_3O_{7-\delta}$. Effect of Y_2BaCuO_x particles **183**, 221
Greaves, C., see P.R. Slater **183**, 111
Green, S.M., see M.A. Manheimer **183**, 324
Guan, W., see Y. Xu **183**, 105
Gupta, A., see Y. Kopelevich **183**, 345

Halsey, B., see M.A. Manheimer **183**, 324
Heidmann, C.-P., see Y. Kopelevich **183**, 345
Heinz, D.L., see G.T. Seidler **183**, 333
Ho, J.C., see X.L. Mao **183**, 167
Houwman, E.P., J.G. Gijsbertsen, J. Flokstra and H. Rogalla, On the suppression of the sidelobes of the supercurrent in small Josephson tunnel junctions **183**, 339

Ibrahim, H.M., see M. ElMassalami **183**, 143
Ido, M., see M. Oda **183**, 234
Ido, M., see N. Momono **183**, 241
Igarashi, H., see T. Satoh **183**, 286
Ivanov, A.A., see V.N. Trofimov **183**, 135
Iye, Y., see C. Murayama **183**, 277

Jiang, M.H., C.A. Ventrice Jr., K.J. Scoles, S. Tyagi, N.J. DiNardo and A. Rothwarf, Point contact tunneling study of $Bi_2Sr_2CaCu_2O_8$ single crystals **183**, 39

Johnson, K.H., M.E. McHenry and D.P. Clougherty, High-T_c superconductivity in potassium-doped fullerene, K_xC_{60}, via coupled $C_{60}(p\pi)$ cluster molecular orbitals and dynamic Jahn–Teller coupling **183**, 319

Kabius, B., see X.F. Zhang **183**, 379
Kamada, Y., see M. Oda **183**, 234
Kamigaki, K., T. Terashima, K. Shimura, Y. Bando and H. Terauchi, Unit cell-by-unit cell grown $(YBa_2Cu_3O_{7-\delta})_1/(PrBa_2Cu_3O_{7-\delta})_1$ superlattice **183**, 252
Kamo, T., see T. Doi **183**, 67
Kodama, Y., see K. Yanagisawa **183**, 197
Kopelevich, Y., A. Gupta, P. Esquinazi, C.-P. Heidmann and H. Müller, Thermally activated depinning in an organic superconductor. Universal behavior of the flux-line lattice in layered superconductors **183**, 345
Kopylov, V.N., see A.V. Bezryadin **183**, 207
Kroeger, D.M., see A. Goyal **183**, 221
Kuberkar, D.G., see G.K. Bichile **183**, 154
Kubo, Y., see C. Murayama **183**, 277
Kulkarni, R.G., see G.K. Bichile **183**, 154
Kuznetsov, A.V., see V.N. Trofimov **183**, 135

Lavrentjev, V.V., see Iu.I. Zhdanov **183**, 247
Lechter, W.L., see R. Navarro **183**, 73
Lepeschkin, P.V., see V.N. Trofimov **183**, 135
Lera, F., see R. Navarro **183**, 73
Liu, H.B., see X.L. Mao **183**, 167
Lofland, S., see M.A. Manheimer **183**, 324

Manako, T., see C. Murayama **183**, 277
Manheimer, M.A., S. Lofland, A. Gould, S.M. Bhagat, B. Halsey, S.M. Green and S. Tyagi, Enhanced microwave absorption near T_c in micron-size powders of cuprate superconductors **183**, 324
Mao, X.L., P. Berdahl, R.E. Russo, H.B. Liu and J.C. Ho, Bi–Pb–Sb–Sr–Ca–Cu–O superconducting thin films deposited on Ni-based alloy with yttria-stabilized zirconia intermediate layers **183**, 167
Markiewicz, R.S., Van Hove excitons and high-T_c superconductivity VII. Gap equation with pair breaking **183**, 303
Matacotta, F.C., see T. Mertelj **183**, 11
Matsuda, S.-P., see T. Doi **183**, 67
Matsui, Y., see K. Yanagisawa **183**, 197
Matsumoto, T., see K. Yanagisawa **183**, 197
Matsumoto, T., see C. Murayama **183**, 277
McGinn, P., W. Chen, N. Zhu, C. Varanasi, L. Tan and D. Balkin, Microstructure and magnetic properties of zone melt textured $YBa_2Cu_3O_{6+x}$ with $BaSnO_3$ additions **183**, 51
McHenry, M.E., see K.H. Johnson **183**, 319
McKenzie, D.R., see G.B. Smith **183**, 172
Mertelj, T., P. Šťastný, F.C. Matacotta, P. Ganguly, C.U. Segre and D. Mihailović, Superconductivity and charge transfer compensation by direct doping in the $La_{1+x}Ca_yBa_{2-x-y}Cu_3O_{7+\delta}$ system **183**, 11
Mihailović, D., see T. Mertelj **183**, 11
Mikhailov, A.A., see V.N. Trofimov **183**, 135
Mikhalyov, K.N., see Iu.I. Zhdanov **183**, 247
Momono, N., M. Ido, M. Oda, N. Yamada, A. Onodera, Y. Okajima and K. Yamaya, Low-temperature crystal structure and superconductivity in $La_{2-x}Ba_xCuO_4$ **183**, 241
Môri, N., see C. Murayama **183**, 277
Morosin, B., E.L. Venturini and D.S. Ginley, Tl–O charge reservoir changes on annealing Tl-1223 crystals **183**, 90
Müller, H., see Y. Kopelevich **183**, 345
Müller, K.-H., see B.W. Ricketts **183**, 17
Murayama, C., Y. Iye, T. Enomoto, N. Môri, Y. Yamada, T. Matsumoto, Y. Kubo, Y. Shimakawa and T. Manako, Correlation between the pressure-induced changes in the Hall coefficient and T_c in superconducting cuprates **183**, 277
Myasoedov, A.B., see Iu.I. Zhdanov **183**, 247

Nakano, T., see M. Oda **183**, 234
Nara, A., see H.W. Zandbergen **183**, 149
Natarajan, S., see U. De **183**, 83
Nava, R., see M. Saint-Paul **183**, 257
Navarro, R., F. Lera, A. Badía, C. Rillo, J. Bartolomé, W.L. Lechter and L.E. Toth, Critical current model analysis of inter- and intra-grain effects in a high density sintered Tl–Ba–Ca–Cu–O ceramic **183**, 73

Oda, M., T. Nakano, Y. Kamada and M. Ido, Electronic states of doped holes and magnetic properties in $La_{2-x}M_xCuO_4$ (M=Sr, Ba) **183**, 234
Oda, M., see N. Momono **183**, 241
Okada, M., see T. Doi **183**, 67
Okajima, Y., see N. Momono **183**, 241
Oliver, W.C., see A. Goyal **183**, 221
Onodera, A., see N. Momono **183**, 241
Osquiguil, E., see J. Vanacken **183**, 163
Ozhogin, V.I., see Iu.I. Zhdanov **183**, 247

Pan, W. and Q.Q. Zheng, Effect of Ni or Zn substitution on the electronic structure of $YBa_2Cu_3O_7$ **183**, 32
Pannetier, B., see M. Saint-Paul **183**, 257
Paulikas, A.P., see G.T. Seidler **183**, 333
Pogrebnyakov, A.V., L.D. Yu, T. Freltoft and P. Vase, In-plane paraconductivity in *c*-oriented epitaxial $YBa_2Cu_3O_{7-x}$ films above T_c **183**, 27
Pourtier, F., see M. Saint-Paul **183**, 257
Puchert, M., see G.B. Smith **183**, 172

Ramakrishnan, T.V., see C. Dasgupta **183**, 62
Reefman, D. and H.B. Brom, Numerical simulations on two-dimensional vortex lattices **183**, 212
Reinen, D. and J. Wegwerth, Local and cooperative bonding effects in K_2NiF_4-type copper superconductors. Structural, spectroscopic and magnetic investigations on mixed crystals $La_{1+x}Sr_{1-x}Ga_{1-x}Cu_xO_4$ **183**, 261

Ricketts, B.W., K.-H. Müller and R. Driver, Flux pinning in tubes of a ceramic superconductor **183**, 17
Rillo, C., see R. Navarro **183**, 73
Rizgalla, M.A., see M. ElMassalami **183**, 143
Rogalla, H., see E.P. Houwman **183**, 339
Rojek, A., G. Wasilewska, A. Bohdziewicz, B. Cendlewska and E. Trojnar, 115 K superconductivity of Bi(Pb/Sb)–Sr–Ca–Cu–O thick films **183**, 130
Rosenbaum, T.F., see G.T. Seidler **183**, 333
Rothwarf, A., see M.H. Jiang **183**, 39
Russo, R.E., see X.L. Mao **183**, 167
Rutter, J., see B.W. Statt **183**, 57

Saemann-Ischenko, G., see X.F. Zhang **183**, 379
Saint-Paul, M., F. Pourtier, B. Pannetier, J.C. Villegier and R. Nava, Acoustic anomalies in $YBa_2Cu_3O_{7-\delta}$ thin films **183**, 257
Satoh, T., J. Fujita, T. Yoshitake and H. Igarashi, Microsctructure of $Bi_2(Sr,Ca)_3Cu_2O_x/Bi_2Sr_2CuO_y/Bi_2(Sr,Ca)_3Cu_2O_x$ trilayer films fabricated by ion beam sputtering **183**, 286
Schmitt, P., see X.F. Zhang **183**, 379
Schultz, L., see X.F. Zhang **183**, 379
Scoles, K.J., see M.H. Jiang **183**, 39
Segre, C.U., see T. Mertelj **183**, 11
Seibt, E.W., see U. De **183**, 83
Seider, E., see W. Zimmermann **183**, 99
Seidler, G.T., T.F. Rosenbaum, D.L. Heinz, J.W. Downey, A.P. Paulikas and B.W. Veal, Scaling of the irreversibility line with superconducting transition temperature in oxygen deficient $YBa_2Cu_3O_{7-\delta}$ **183**, 333
Shimakawa, Y., see C. Murayama **183**, 277
Shimura, K., see K. Kamigaki **183**, 252
Shustov, L.D., see Iu.I. Zhdanov **183**, 247
Slater, P.R., A.J. Wright and C. Greaves, The effects of partial substitutions of Zn and Fe on the Cu sites in $LaBa_2Cu_3O_{7\pm x}$, and a comparison with similar substitutions in $YBa_2Cu_3O_{7-x}$ **183**, 111
Smith, G.B., D.R. McKenzie, M. Puchert, S.W. Filipczuk and D.J.H. Cockayne, Anomalous voltage–current characteristics in the sputtering of YBaCuO **183**, 172
Soeta, A., see T. Doi **183**, 67
Song, L.M., see B.W. Statt **183**, 372
Šťastný, P., see T. Mertelj **183**, 11
Statt, B.W., Z. Wang, S. Bagheri and J. Rutter, Magnetic field alignment of $(Bi,Pb)_2Ca_2Sr_2Cu_3O_{10}$ **183**, 57
Statt, B.W. and L.M. Song, Copper quadrupolar site assignments for $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10}$ **183**, 372
Strangfeld, Th., K. Westerholt and H. Bach, Electronic charge transport and magnetism of the system $(La_{1-x}Sr_x)_2NiO_{4+\delta}$ **183**, 1

Takagi, H., see C.H. Chen **183**, 121
Tan, L., see P. McGinn **183**, 51
Tanaka, S., see H.W. Zandbergen **183**, 149
Terashima, T., see K. Kamigaki **183**, 252
Terauchi, H., see K. Kamigaki **183**, 252
Tešanović, Z., see S. Dukan **183**, 355
Tewordt, L., see S. Wermbter **183**, 365
Toth, L.E., see R. Navarro **183**, 73
Trofimov, V.N., A.V. Kuznetsov, P.V. Lepeschkin, K.A. Bolschinskov, A.A. Ivanov and A.A. Mikhailov, Transverse field penetration paradox in thin films and magnetic properties of $Nd_{1.85}Ce_{0.15}CuO_{4-x}$ epitaxial films **183**, 135
Trojnar, E., see A. Rojek **183**, 130
Tyagi, S., see M.H. Jiang **183**, 39
Tyagi, S., see M.A. Manheimer **183**, 324

Urban, K., see X.F. Zhang **183**, 379

Vanacken, J., E. Osquiguil and Y. Bruynseraede, Irreversibility line and critical currents in oxygen deficient $YBa_2Cu_3O_x$ ceramics **183**, 163
Varanasi, C., see P. McGinn **183**, 51
Vase, P., see A.V. Pogrebnyakov **183**, 27
Veal, B.W., see G.T. Seidler **183**, 333
Ventrice Jr., C.A., see M.H. Jiang **183**, 39
Venturini, E.L., see B. Morosin **183**, 90
Verkhovskii, S.V., see Iu.I. Zhdanov **183**, 247
Villegier, J.C., see M. Saint-Paul **183**, 257
Volkov, A.F., Josephson-like vortices in a layered superconductor. An analytically solvable model **183**, 177

Wada, T., see H.W. Zandbergen **183**, 149
Wang, Z., see B.W. Statt **183**, 57
Wasilewska, G., see A. Rojek **183**, 130
Wegwerth, J., see D. Reinen **183**, 261
Werder, D.J., see C.H. Chen **183**, 121
Wermbter, S. and L. Tewordt, Theory of thermal conductivity and nuclear relaxation rate for high temperature superconductors **183**, 365
Westerholt, K., see Th. Strangfeld **183**, 1
Wright, A.J., see P.R. Slater **183**, 111

Xu, Y. and W. Guan, Nonmagnetic–magnetic transition of Pr ion in $(R_{1-x}Pr_x)Ba_2Cu_3O_{7-y}$ systems (R = Er, Y, Dy, Gd, Eu) **183**, 105

Yakubovskii, A.Yu., see Iu.I. Zhdanov **183**, 247
Yamada, N., see N. Momono **183**, 241
Yamada, Y., see K. Yanagisawa **183**, 197
Yamada, Y., see C. Murayama **183**, 277
Yamauchi, H., see H.W. Zandbergen **183**, 149
Yamaya, K., see N. Momono **183**, 241
Yanagisawa, K., Y. Matsui, Y. Kodama, Y. Yamada and T. Matsumoto, High-resolution transmission electron microscope study of effects of cobalt substitution on the stability and perfection of $YBa_2Cu_4O_y$ superconductors **183**, 197
Yoshitake, T., see T. Satoh **183**, 286
Yu, L.D., see A.V. Pogrebnyakov **183**, 27
Yuasa, T., see T. Doi **183**, 67

Zandbergen, H.W., T. Wada, A. Nara, H. Yamauchi and S. Tanaka, HREM study of planar defects in a layered cuprate with thick fluorite blocks, $(Fe,Cu)Sr_2(Ce,Y)_3Cu_2O_{10+z}$ ($z \approx 1$) **183**, 149

Zhang, X.F., B. Kabius, K. Urban, P. Schmitt, L. Schultz and G. Saemann-Ischenko, A TEM study of $Bi_2CaCu_2O_x$ superconducting thin films on $SrTiO_3$ substrates **183**, 379

Zhdanov, Iu.I., B.A. Aleksashin, K.N. Mikhalyov, V.V. Lavrentjev, S.V. Verkhovskii, A.Yu. Yakubovskii, V.I. Ozhogin, L.D. Shustov and A.B. Myasoedov, Interlayer CuO_2 antiferromagnetic spin correlations in Tl-based superconducting $Tl_2Ba_2Ca_nCu_{n+1}O_{6+2n}$ and $Tl_{0.5}Pb_{0.5}Sr_2Ca_{0.8}Y_{0.2}Cu_2O_7$ oxides. ^{63}Cu and ^{205}Tl NMR and spin-lattice relaxation data **183**, 247

Zheng, Q.Q., see W. Pan **183**, 32

Zhu, N., see P. McGinn **183**, 51

Zimmermann, W., E.H. Brandt, M. Bauer, E. Seider and L. Genzel, Optical conductivity of BCS superconductors with arbitrary purity **183**, 99

Physica C 183 (1991) 393
North-Holland

PHYSICA C

Analytic Subject Index to Volume 183

AC susceptibility 73, 333
Antiferromagnetic order
–in $(La_{1-x}Sr_x)_2NiO_{4+\delta}$ 1
–in $YBa_2Fe_3O_{7+x}$ 143
Applications of high-T_c superconductors 257, 339
Auger spectroscopy 83

BCS model 99
Bi–Sr–Ca–Cu–O 286

Carrier concentration 90, 154, 277
Coherence length 27
–in $Bi_2Sr_2CaCu_2O_8$ 39
Critical current density 17, 51, 67, 73, 135, 154, 163, 167, 339
Critical state model 73
Cu–O chains 197
Cu–O planes 39, 57, 372

Defect structures 111, 121, 149, 221, 379
–in $(Bi,Pb)_2Ca_2Sr_2Cu_3O_{10}$ 57
De Haas–van Alphen oscillations 355
Dynamic Jahn–Teller coupling 319

Elastic moduli 360
Electrical resistivity 234, 333
Electron-doped superconductor 135
Electronic structure
–of $La_{2-x}M_xCuO_4$ (M$\ddot{\text{S}}$r,Ba) 234
–of $YBa_2Cu_3O_7$ 32
Electron–phonon coupling 303
Energy gap 39, 303, 355
EPR 261
Excitonic mechanism 303

Fermi velocity 39
Fluctuation effects 27, 360
Flux creep 62
Flux dynamics 99
Flux lattice 212, 360
Flux line lattice depinning 345
Flux pinning 17, 62, 67, 154, 379

Gapless superconductor 355
Ginzburg–Landau theory 62
Grain alignment (texturing) 57
Grain boundaries 17
Granular superconductivity 73, 83

Hall effect 277
High pressure effect 277, 319
HREM 286, 379
–of $(Fe,Cu)Sr_2(Ce,Y)_3Cu_2O_{10+z}$ ($z \approx 1$) 149

Irreversibility line 163
–in $YBa_2Cu_3O_{7-\delta}$ 333
Isotope effect 303, 319

Josephson effect 177, 339
Josephson vortices 177

Kosterlitz–Thouless transition 212
K_xC_{60} 319

Laser deposition 167
Lower critical field H_{c1} 135, 177
Lower critical field H_{c2} 293

Magnetic susceptibility 1, 234
Magnetization 51, 67, 73, 135, 154, 293
Magnetoresistance 207
Magnetron sputtering 172
Meissner effect 241
Microwave absorption 324
Modulated structures 252
Mössbauer spectroscopy 143
Multilayers 252, 286

Neutron diffraction
–in $LaBa_2Cu_{3-y}M_yO_{7\pm x}$ 111
NMR 212, 247, 365
–in $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10}$ 372
Normal-state properties 1
–of $La_{1+x}Ca_yBa_{2-x-y}Ca_3O_{7+\delta}$ 11
NQR 372

Optical conductivity 99
Optical spectroscopy 261
Organic superconductor 345
Oxygen stoichiometry 90, 293, 333
–in $YBa_2Cu_3O_x$ 163

Pair breaking 105, 154, 234
Penetration depth 99, 303, 324
Phase diagram 241
Pinning force 17
Proximity effect 207

Raman scattering
–in $La_{1+x}Ca_yBa_{2-x-y}Ca_3O_{7+\delta}$ 11
Scanning tunneling microscopy 207
Screen printing 130
Specific heat at T_c 293
Spin fluctuations 105, 247
Spin-lattice relaxation time T_1 247
Strong coupling 303, 365
Structural phase transition 241
Structure
–of $Bi_{1.6}Pb_{0.6}Sb_{0.1}Sr_2Ca_2Cu_3O_x$ 130
–of $(Fe,Cu)Sr_2(Ce,Y)_3Cu_2O_{10+z}$ ($z \approx 1$) 149
–of $La_{1+x}Ca_yBa_{2-x-y}Ca_3O_{7+\delta}$ 11
–of $La_{1-x}Sr_{1+x}Ga_{1-x}Cu_xO_4$ 261
–of $La_{2-x}(Sr,Ba)_xCuO_4$ 121
–of $LaBa_2Cu_{3-y}M_yO_{7\pm x}$ 111
–of $TlCa_2Ba_2Cu_3O_{9-\delta}$ 90
–of $YBa_2Cu_4O_y$ 197
–of $YBa_2Fe_3O_{7+x}$ 143
Substitution effects 32
–in $(R_{1-x}Pr_x)Ba_2Cu_3O_{7-y}$ (R$\ddot{\text{E}}$r, Y, Dy, Gd, Eu) 105
Substitution effects of Co
–in $YBa_2Cu_4O_y$ 197
Surface barrier 207
Synthesis
–of $Bi_{1.6}Pb_{0.6}Sb_{0.1}Sr_2Ca_2Cu_3O_x$ 130
–of $TlCa_2Ba_2Cu_3O_{9-\delta}$ 90

Thermal conductivity 365
Thermal expansion 241
Thermoelectric effects
–in $(La_{1-x}Sr_x)_2NiO_{4+\delta}$ 1
Thin films 27, 135, 167, 252, 257, 286, 379
–of $Bi_{1.6}Pb_{0.6}Sb_{0.1}Sr_2Ca_2Cu_3O_x$ 130
Tunneling grain alignment (texturing) 51
Twin boundaries
–in $La_{2-x}(Sr,Ba)_xCuO_4$ 121

Ultrasound attenuation 257
Upper critical field H_{c2} 293

Vibronic Jahn–Teller coupling 261
Voltage–current characteristics 172
Vortex lattice melting 360

Young's modulus
–of $YBa_2Cu_3O_{7-\delta}$ 221

Physica C 183 (1991) 395
North-Holland

PHYSICA C

Materials Index to Volume 183

$(Bi,Pb)_2Ca_2Sr_2Cu_3O_{10}$
–defect structures 57
$Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10}$
–NMR 372
$Bi_{1.6}Pb_{0.6}Sb_{0.1}Sr_2Ca_2Cu_3O_x$
–structure 130
–synthesis 130
–thin films 130
$Bi_2Sr_2CaCu_2O_8$
–coherence length 39

$(Fe,Cu)Sr_2(Ce,Y)_3Cu_2O_{10+z}$
–HREM 149
–structure 149

$La_{1+x}Ca_yBa_{2-x-y}Ca_3O_{7+\delta}$
–normal-state properties 11
–Raman scattering 11
–structure 11
$La_{1-x}Sr_{1+x}Ga_{1-x}Cu_xO_4$
–structure 261
$(La_{1-x}Sr_x)_2NiO_{4+\delta}$
–antiferromagnetic order 1
–thermoelectric effects 1
$La_{2-x}M_xCuO_4$
–electronic structure 234
$La_{2-x}(Sr,Ba)_xCuO_4$
–structure 121
–twin boundaries 121
$LaBa_2Cu_{3-y}M_yO_{7\pm x}$
–neutron diffraction 111
–structure 111

$(R_{1-x}Pr_x)Ba_2Cu_3O_{7-y}$
–substitution effects 105

$TlCa_2Ba_2Cu_3O_{9-\delta}$
–structure 90
–synthesis 90

$YBa_2Cu_3O_7$
–electronic structure 32
$YBa_2Cu_3O_{7-\delta}$
–irreversibility line 333
–Young's modulus 221
$YBa_2Cu_3O_x$
–oxygen stoichiometry 163
$YBa_2Cu_4O_y$
–structure 197
–substitution effects of Co 197
$YBa_2Fe_3O_{7+x}$
–antiferromagnetic order 143
–structure 143